

CLAIMS

1. A control mechanism for a planetary manual transmission having multiple synchronizers each having a neutral position and at least one engaged position and a plurality of shift rails adapted to move the synchronizers, said control mechanism comprising:
 - 5 a plurality of slotted members each having a distinct slot for each individual shift rail;
 - a control pin aligned in each of said slot configurations in each of slotted members; and
 - means for manipulating said members individually to enforce
 - 10 selective movement of said pins to thereby control at least two synchronizers into respective engaged positions.
2. The control mechanism defined in Claim 1 further comprising:
 - at least one of said slotted members being a neutral member; and
 - the remaining slotted members being ratio control members.
3. The control mechanism defined in Claim 1 further comprising:
 - at least one of said four members being a reverse ratio control
 - member.
4. The control mechanism defined in Claim 3 further wherein:
 - at least three of said slotted members are moveable to individually
 - establish at least two ratios.
5. The control defined in Claim 1 further wherein:
 - each of said slotted members is a substantially flat plate member;
 - and

- each of said flat plate members having a pair of spaced
- 5 longitudinal grooves that are nested when all of the plate members are positioned in a neutral position.

6. The control mechanism defined in Claim 5 further wherein:
- each of said grooves has a predetermined depth and a movement of one of said plate members from the neutral position to a ratio position causing the remaining plate member to be moved vertically a distance equal
- 5 to twice said predetermined depth.

7. The control mechanism defined in Claim 1 further wherein:
- each of said slotted members is a tubular structure.